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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FP1911	FOR FURTHER See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).							
International Application No.	International Filing Date (day/month/year)	Priority Date (day/month/year)						
PCT/SG2003/000284	12 December 2003	12 December 2003						
International Patent Classification (IPC) or national classification and IPC								
Int. Cl. 7 G06T 7/60, G06K 9/46								
Applicant								
AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH et al								
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.								
2. This REPORT consists of a total of 3 sheets, including this cover sheet.								
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
These annexes consist of a total of sheet(s).								
3. This report contains indications relating	g to the following items:	,						
I X Basis of the report								
II Priority								
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability								
IV Lack of unity of inventio	Lack of unity of invention							
i - 1	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
VI Certain documents cited	Certain documents cited							
VII Certain defects in the inte	Certain defects in the international application							
VIII Certain observations on the international application								
Date of submission of the demand Date of completion of the report								
4 May 2005		August 2005						
Name and mailing address of the IPEA/AU	Aut	horized Officer						
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Fractimile No. (02) 6285 2020 J.W. THOMSON								
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SG2003/000284

Ι.	Basis of the repo	rt				
1.	With regard to the elen	nents of the international application:*				
	X the international	application as originally filed.				
	the description,	pages, as originally filed,				
		pages, filed with the demand,				
		pages, received on with the letter of				
	the claims,	pages, as originally filed,				
		pages, as amended (together with any statement) under Article 19,				
		pages, filed with the demand,				
		pages, received on with the letter of				
	the drawings,	pages, as originally filed,				
		pages, filed with the demand,				
		pages, received on with the letter of				
	the sequence lis	sting part of the description:				
	<u>-</u> -	pages, as originally filed				
		pages, filed with the demand				
		pages received on with the letter of				
2.	which the internation	nguage, all the elements marked above were available or furnished to this Authority in the language in all application was filed, unless otherwise indicated under this item. available or furnished to this Authority in the following language which is: f a translation furnished for the purposes of international search (under Rule 23.1(b)).				
İ	Inc language o	f publication of the international application (under Rule 48.3(b)).				
	the language of and/or 55.3).	of the translation furnished for the purposes of international preliminary examination (under Rules 55.2				
3.	7771.1	ucleotide and/or amino acid sequence disclosed in the international application, the international instign was carried out on the basis of the sequence listing:				
	ontained in the international application in written form.					
	filed together with the international application in computer readable form.					
	furnished subsequently to this Authority in written form.					
	furnished sub	sequently to this Authority in computer readable form.				
		t that the subsequently furnished written sequence listing does not go beyond the disclosure in the application as filed has been furnished.				
	The statemen been furnishe	t that the information recorded in computer readable form is identical to the written sequence listing has				
4	The amendm	ents have resulted in the cancellation of:				
		description, pages				
	<u></u>	claims, Nos.				
		drawings, sheets/fig.				
		the amendments had not been made, since they have been considered to				
	go beyond th	ne disclosure as filed, as indicated in the Supplemental Box (reals very)				
	vanort as "origina	is which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this ally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).				
	** Any replacement	sheet containing such amendments must be referred to under item 1 and annexed to this report				

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

2. Citations and explanations (Rule 70.7)

The following documents cited in the International Search Report were considered:

Claims

- US 6430430 B (Gosche), 6 August 2002
- Chunlin, Li et al., Knowledge-Based Classification and Tissue Labelling of MR Images of Human Brain, Medical Imaging, IEEE Transactions, December 1993, Vol. 12, No. 4 pp 740-749
- WO 2000/065985 A (University of South Florida), 9 November 2000
- JP 2001092980 a (NEC), 6 April 2001
- Clarc MC et al., Automatic Tumor Segmentation using Knowledge-Based Techniques, Medical Imaging, IEEE transactions, April 1998, Vol. 17, Issue 2, ISSN:0278-0062 pp 187-200

However, these documents merely define the general state of the art and are not considered to be of particular relevance.

The following new citation is relevant:

• Hu & Nowinski, A Rapid Algorithm for Robust and Automatic Extraction of the Midsagittal Plane of the Human Cerebrum from Neuroimages Based on Local Symmetry and Outlier Removal, NeuroIMage, December 2003, Volume 20, Issue 4, pp 2153-2165.

1. Novelty and Inventive Step

a. Whilst the document cited above discloses a method of determining the location of the midsagittal plane of the human cerebrum as recited in step a) of claim 1, it does not disclose or suggest calculating a ratio of outliers to the inliers as recited in step b); or the comparing of that ratio with a threshold as recited in step c).

Therefore the invention defined in claims 1-30 is both novel and inventive over the cited prior art.